



~~LESSONS LEARNED~~ **FIXED**



# OPERATION ALLIED FORCE



Operation  
Precision  
Predator







# SNAKE'S WAR

13 - 28 March

RAF

Molesworth  
Alconbury  
Mildenhall  
Lakenheath

7 - 29 April

31FW  
CAOC

Aviano, IT  
Vicenza, IT

17 - 29 May

RAF

Molesworth  
Lakenheath  
Rhein-Main  
Ramstein  
Tuzla, BH  
Aviano, IT  
Vicenza, IT

# OPERATION PRECISION PREDATOR

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- **Joint Eagle**
- **POWERSCENE**
- **Joint Targeting Work Station**
- **NIMA-IN-A-BOX**
- **Laser Predator**

# **OPERATION PRECISION PREDATOR**

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- 2 APR CSAF Tasking**
- 7 APR Col Clark at CAOC**
- 11 APR Equipment in Theater**
  - Maj Kuchar and NIMA-in-a-box at Aviano**
  - Mr. Wiedemann at Tuzla ESD Predator modification**
- 14 APR Decision to put Laser on Predator**
- 27 APR 1st Successful Precision Coordinates**
- 1 MAY 1st Tank Kill**
  - NIMA-in-a-box on ABCCC HAMMER 34**
  - C-MNS Laser**
- 4 MAY Laser Predator 1st Flight Indian Springs**
- 23 MAY Laser Predator Delivered to Tuzla**
- 2 JUN 1st Laser Predator Drop in Kosovo**

# **EAGLE VISION SUPPORT OF OPERATION ALLIED FORCE**

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**95 - 99 Previously imaged all of former Yugoslavia  
Spot**

**Feb - Mar 99 Joint Eagle/Eagle Vision deployment to JAC  
Molesworth**

**Mar - Jun 99 Imagery collections**

**18 180 Km x 180 Landsat scenes**

**12 60 Km x 60 Km Spot multi spectral scenes**

**9 Radarsat Scenes**

**24 70 Km x 70 Km IRS scenes**

**15 CIB 1 meter National scenes**

# POWERSCENE

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- 4 Aviano**
- 2 Lakenheath**
- 1 Mildenhall**
- 1 Spangdahlem**
- 1 TIGER/DARPA POWERSCENE  
CAOC**

# JTW

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**CAOC Vicenza**  
**JAC Molesworth**  
**Beale AFB**

JTW

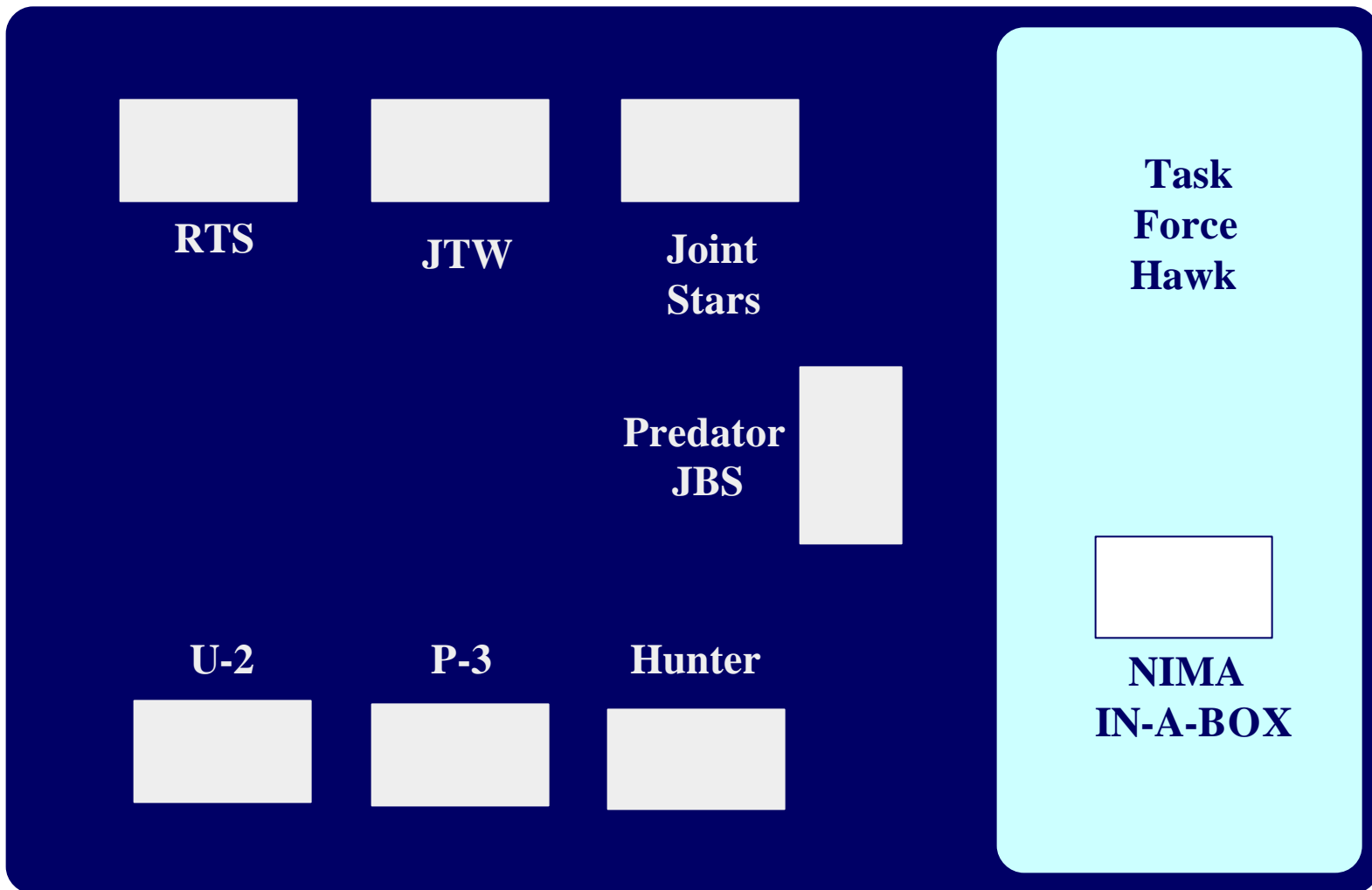




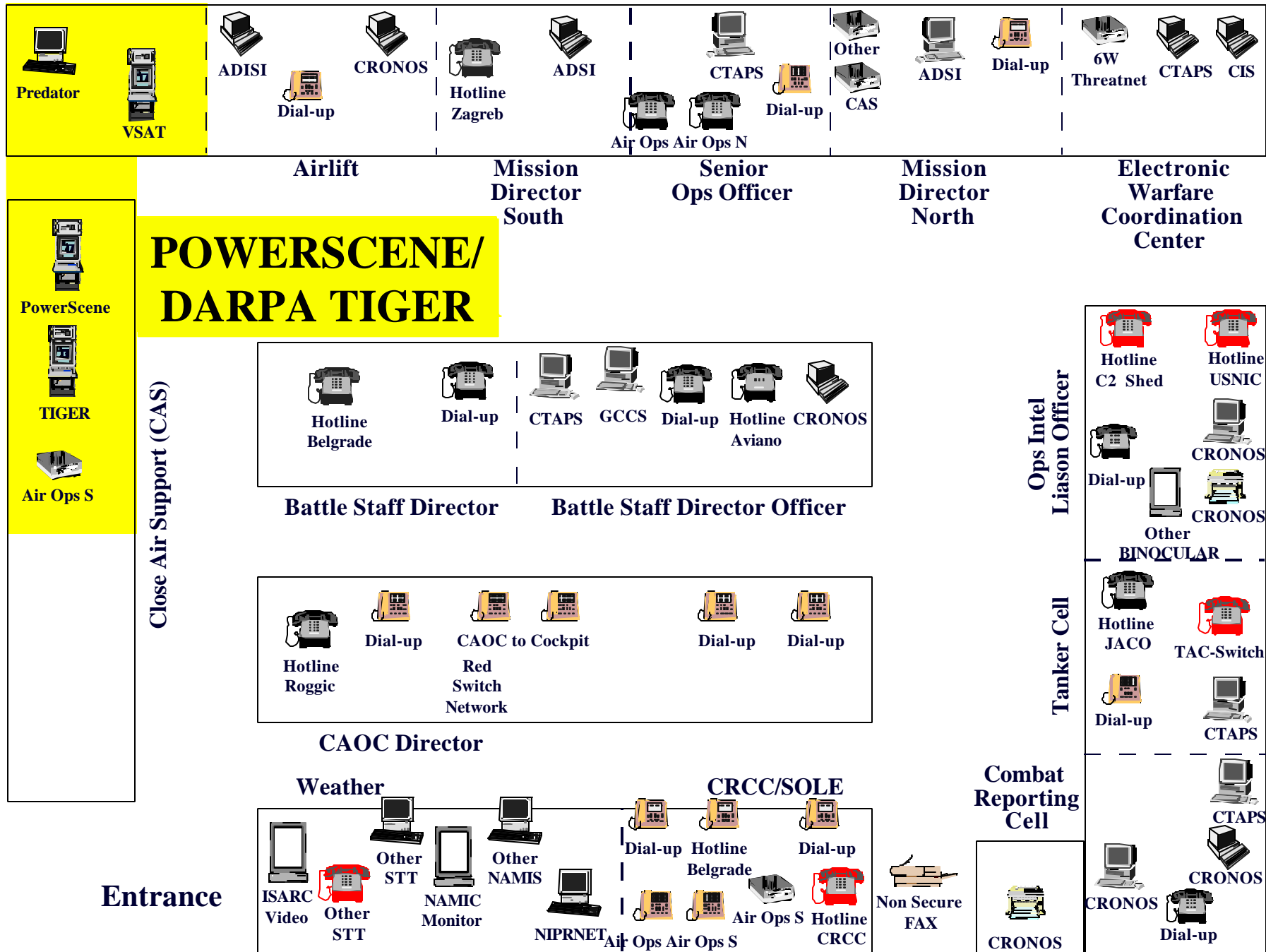
**1st successful precision coordinates from Predator on  
JTW passed to CAOC Battle director in 3 minutes on 27 Apr 99**

# CAOC/ISR RAPID TARGETING CELL

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# CAOC May 99 Battle Cab



# NIMA-IN-A-BOX

**"NIMA and local Intel folks have been doing a bang up job on getting the NIMA terminals on our airplanes and integrating them into our mission. We have had several success stories including "talk on's" for Kosovo close air support sorties (one that I personally did), other incidents matching coords to maps, and finally the Hammer 34 F-16 search and rescue effort last night where we got good dope, passed it to rescue forces and potentially saved a helo. It's been great.**

**Down the road I want to continue to work this project so that it becomes an integral part of our battle mgt system.**

**I simply don't know what we did without it for so long. Thanks again."**

**Major "Marko" Russell  
42 ACCS/DETCO  
2 May 99**

# **NIMA-in-a-Box 2000**

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**31st FW, Aviano AB  
CAOC, Vicenza AB  
352nd SOG, RAF Mildenhall  
48th FW, RAF Lakenheath  
Eagle Vision I, Ramstein AB  
HQ USAFE/SE, Ramstein AB  
HQ USAFE/IN, Ramstein AB  
52nd FW, Spangdahlen AB  
Red Flag, Nellis AFB  
HQ USAF, Theater Battle Arena,  
Pentagon  
HQ EUCOM, Stuttgart  
USS MT Whitney (USN)  
US Army KFOR, Kosovo  
Operation Northern Watch, Incirlik AB  
Joint Mission Planning System  
(JMPS/PFPS) Program Office,  
ESC/ACU OL-1, Eglin AFB**

**Air Force Mission Planning System  
Office, ESC/ACU, Hanscom AFB  
HQ ACC, Langley AFB  
32nd ABCCC, Davis Monthan AFB  
4th FW, Seymour-Johnson AFB  
HQ AFSOC, Hurlburt Field  
HQ PACAF, Hickam AFB  
86th AW, Ramstein AB  
11th AF, Elmendorf AFB  
9th AF, Shaw AFB  
11th RS, Predator, Indian Springs  
352nd IS, Nevada Air National  
Guard, Reno  
480th IG, Langley AFB  
Red Flag, Nellis AFB  
Hq USAF/CVAZ, Pentagon**



# ALLIED FORCE EVOLUTION

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**NIMA-in-a-Box**



**POWERSCENE**

**PFPS  
FALCON  
VIEW**

**JMPS**



# ***NELLIS EAGLE***

**The Next Evolution of Eagle Vision  
After Operation Allied Force**

# NELLIS EAGLE GOALS

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## Continue the History of Red Flag Innovations

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- 1970's Aggressors and Realistic Air-to-Air Training
- 1990's Realistic Use of Space and Information Warfare Training
- 1990 Operation Allied Force Lessons Learned



The Spirit of Moody's  
Legacy Continues  
Into the Next Millennium

# THE “SNAKE” PIT

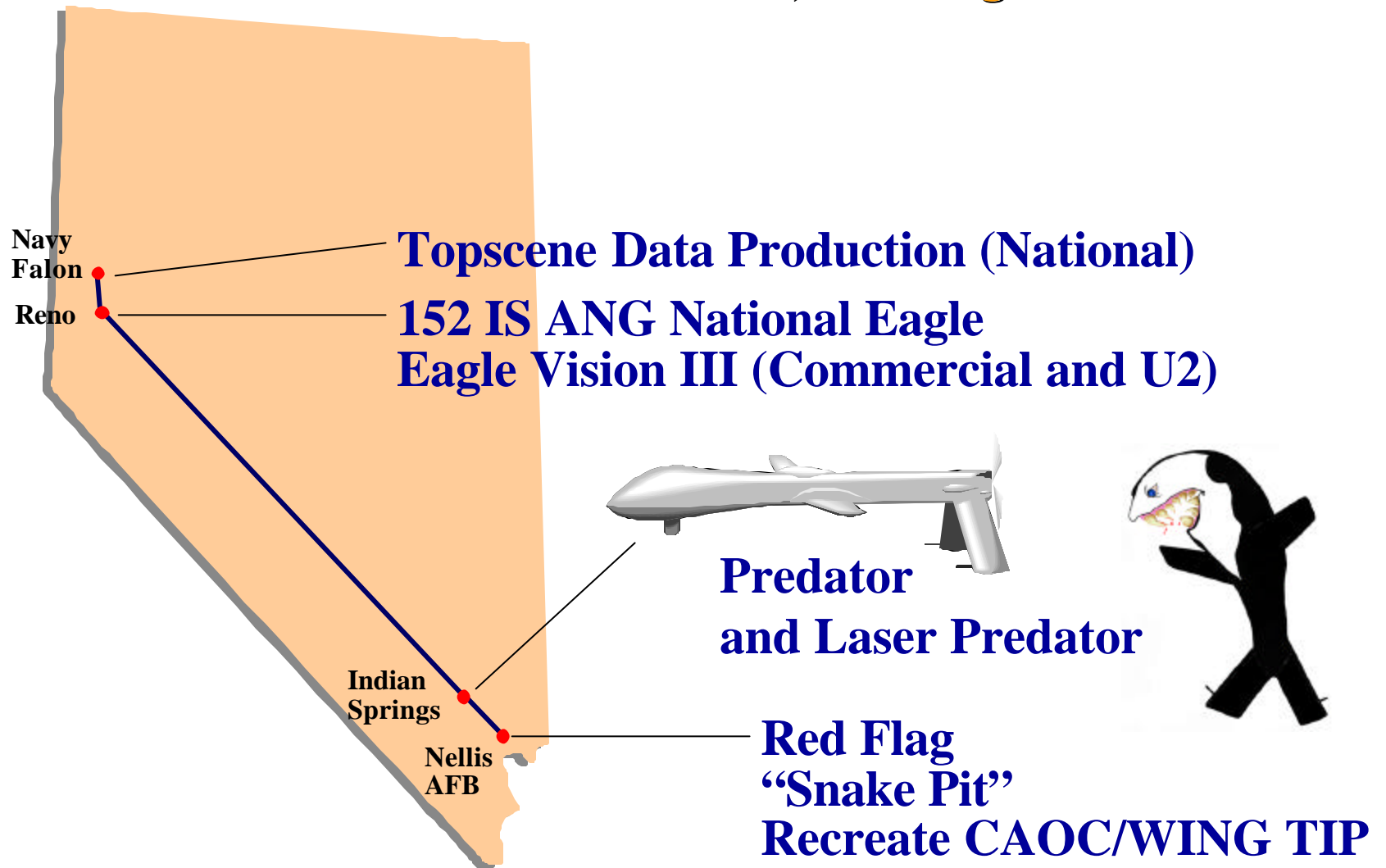
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- All Squadron Level Mission Planning Systems in One Room in Suter Hall
- Recreate CAOC Vicenza and 31st FW Aviano Operation Allied Force Systems
- A Window to the Warfighter Let's Show Them Where We're Going With JMPS, Powerscene, DARPA'S TIGER and NRO's JTW and Get Their Feedback



# NELLIS EAGLE

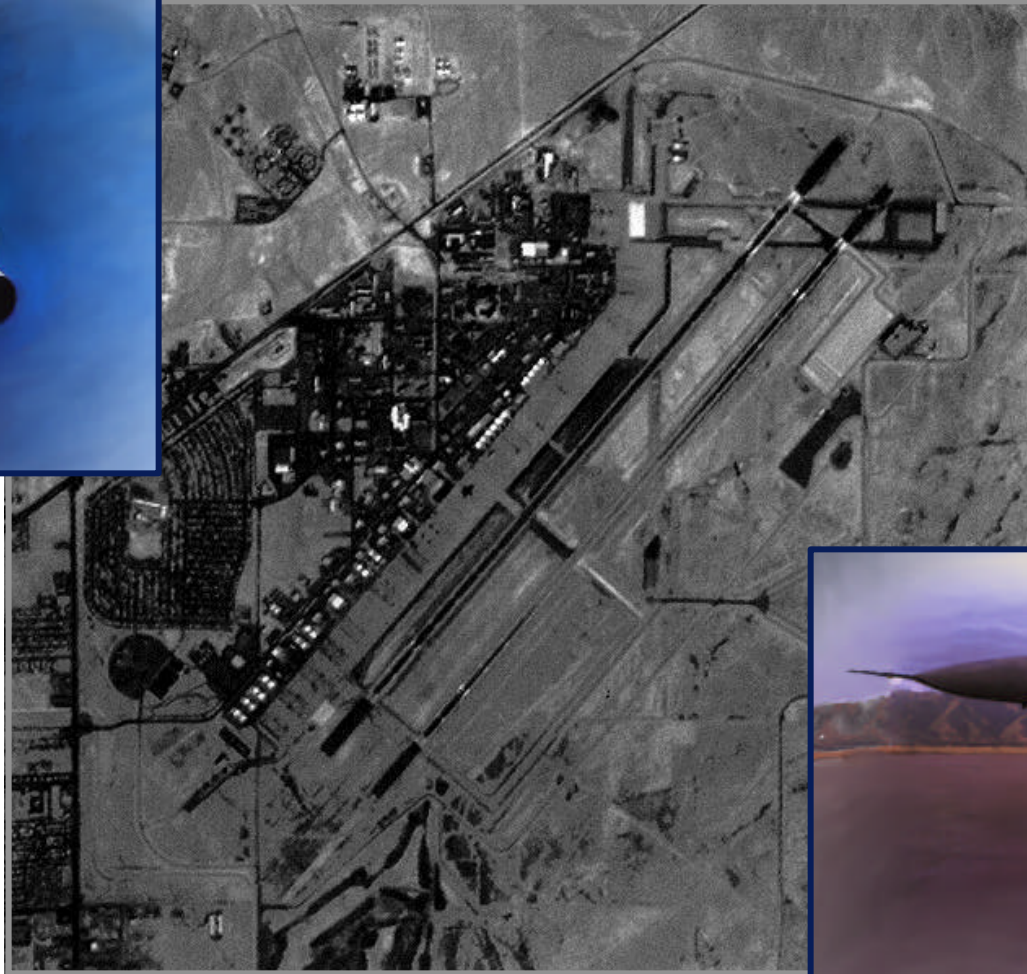
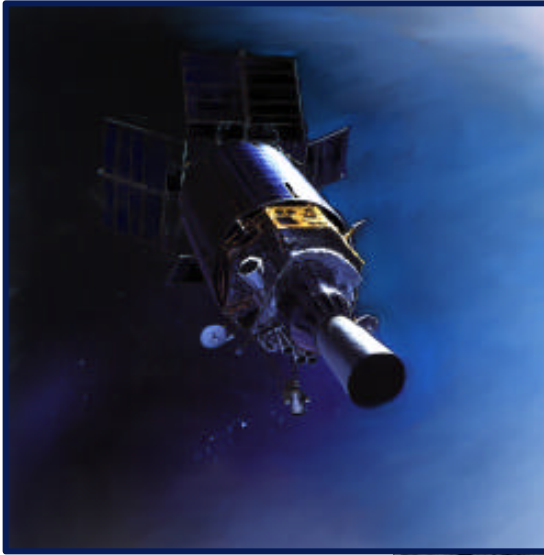
**Institutionalize Our Allied Force Innovations, Training and Procedures**





# NELLIS EAGLE

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**Where space and the warfighter meet**

42°34'35"N  
23°59'04"E

601.5m  
-39.43°

12,500m  
9.3°

42°33'45"N  
21°02'13"E

13:33:38  
110.68°